Jordan Taylor

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Software Engineer with experience building scalable AI/ML services and cloud-native applications using Kubernetes and Golang. Skilled in deploying machine learning models, building efficient APIs, and automating CI/CD workflows. Strong background in designing reusable libraries and internal tools to improve development efficiency and support enterprise-wide solutions.

SKILLS & OTHER

Core Technologies: Golang, Python, Kubernetes, Docker, Kafka, NATS, Redpanda, Airflow, Airbyte, GraphQL, REST APIs, PostgreSQL, MySQL

Event Streaming & Messaging: Kafka, Redpanda, NATS, Pub/Sub Architectures, Schema Evolution, Event-Driven Design, Consumer Groups, Message Brokers

Cloud & DevOps: AWS, Helm, Terraform, GitHub Actions, CI/CD

Observability: OpenTelemetry, Logging, Distributed Tracing, Metrics

Concepts: Distributed Systems, Event Streaming, Infrastructure as Code, Data Pipelines, Microservices Architecture

PROFESSIONAL EXPERIENCE

Booz Allen Hamilton, *Remote* Oct 2024 - Present

Senior Software Engineer

- Designed and deployed scalable online inferencing services on **Kubernetes**, leveraging **KServe** (built on **Knative**) to support mission-critical model deployments across secure cloud environments.
- Integrated **NATS** for lightweight messaging between **microservices** in **AI workflows**, enabling asynchronous communication and responsive system behavior in **distributed deployments**.
- Delivered **LLM-as-a-Service** capabilities using a hybrid approach: self-hosted models via Amazon **Bedrock** and third-party providers via **LiteLLM**, acting as a **proxy** for seamless model integration.
- Implemented a **Retrieval-Augmented Generation** (RAG) pipeline to assist in automating **SOC 2** compliance mapping over AWS, enabling natural language queries on control requirements and evidence sources.
- Versioned and managed ML models using Git and **GitLFS** to ensure reproducibility and auditability for government-approved AI workflows.
- Developed **GitHub CI/CD** workflows to convert models from **joblib** to **ONNX** for optimized deployment across edge and cloud environments.
- Integrated **Qdrant** vector database for semantic search and contextual reasoning within secure RAG pipelines used in federal applications.

- Built a **Golang**-based **GraphQL API** for secure, fine-grained data access, reducing complexity in data retrieval for front-end teams while enhancing internal tooling across federal systems.

- Created a shared **Golang, Python** utility library using **Generics** and **Iterators**, standardizing internal **microservice** logic and minimizing redundant code across multiple government projects.

- Led the design and implementation of integration and performance tests for AI models prior to deployment in staging, ensuring robustness and compliance with federal AI guidelines.

- Automated testing and reporting via GitHub Actions, generating markdown-based evaluations of model performance and accuracy directly within **pull requests**.

- Developed an internal chatbot interface using **OpenWebUI** with backend support for multiple AI models, enabling cross-agency access to knowledge while incorporating rate limiting and content filters for governance and compliance.

Device42, *Remote* Apr 2022 - Oct 2024

Senior Software Engineer

- Engineered and maintained **high-throughput stream processing systems** using **Redpanda** (Kafka-compatible) and **Golang**, enabling real-time insights and infrastructure event tracking across large-scale IT environments.

- Built automated **data integration pipelines** using tools like **Airflow** and **Airbyte**, handling complex ETL workflows between diverse infrastructure sources and internal databases.

- Operated and optimized containerized applications in **Kubernetes**, using **Helm** for release management and enforcing infrastructure best practices through **Terraform**.

- Instrumented services with **OpenTelemetry**, enabling fine-grained observability through distributed tracing, metrics, and structured logging, reducing **MTTR** in production.

- Worked closely with cross-functional stakeholders and internal customers to deliver backend solutions aligned with compliance and operational goals.

- Championed **DevOps** workflows through fully automated **CI/CD pipelines** in GitHub Actions, integrating quality gates, regression tests, and environment-specific deployments.

- Collaborated cross-functionally with data, platform, and **SRE** teams to define **SLAs**, scale infrastructure, and ensure resilience across systems.

- Mentored junior engineers on distributed systems design, clean code practices, and stream-first thinking, cultivating a strong backend engineering culture.

- Drove adoption of **schema versioning** and **data contracts** to improve stability and confidence in internal developer-facing platforms.

L3Harris Technologies, *Melbourne, FL* May 2016 - Jul 2020

Specialist Software Engineer

- Designed and maintained scalable backend services using **Golang**, focusing on high performance, reliability, and **modular** architecture across internal systems.

- Implemented schema versioning and message contracts to ensure stability and backward compatibility across Kafka/NATS topics and consumer pipelines.

- Developed **RESTful** and GraphQL APIs to support internal tooling and data integration, improving team workflows and reducing frontend complexity.

- Built and optimized CI/CD pipelines with GitHub Actions and **Jenkins** to automate testing, deployment, and rollback procedures.

- Instrumented backend services using **OpenTelemetry**, enabling distributed tracing and improved observability across **microservices**.

- Managed relational databases including **PostgreSQL** and **MySQL**, implementing schema migrations, query tuning, and data validation.

- Deployed and orchestrated containerized services using Docker and Kubernetes in secure, production-like environments.

- Collaborated with cross-functional teams in product, **DevOps**, and **QA** to design and deliver backend solutions aligned with business requirements.

- Participated in code reviews, architectural discussions, and mentoring sessions to support continuous learning and engineering excellence.

Geographic Information Services (APSU), *Clarksville, TN* Jan 2014 - May 2016

Programming Technician

- Developed and maintained GIS applications and scripts to support spatial data analysis and campus-wide mapping initiatives.

- Utilized Python extensively for data processing, geospatial analysis, and automation of repetitive GIS workflows.

- Assisted in managing geospatial databases, performing data cleaning, transformation, and integration from multiple sources.

- Supported faculty and researchers by building custom Python tools for geospatial research and visualization.

- Created web-based GIS solutions to improve accessibility and usability of spatial data for administrative and academic departments.

- Collaborated with cross-functional teams to gather requirements and deliver programming solutions that enhanced decision-making processes.

EDUCATION

Austin Peay State University**,** Clarksville, TN 2012 - 2016

Bachelor's degree, Physics

- Activities: Member of President's Emerging Leaders Program (PELP), Member of Del Square Psi Physics Club
- Bachelor of Science in Physics with Minors in Computer Science and Mathematics

Montgomery Central High School**,** Cunningham, TN 2008 - 2012

Distinguished Honors